

YNK-DBR No.

Date

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

ಸ.ಕಾ.ಅ/ಯಾ.ಉ.ವಿ.
ಎಸ್.ಬಿ.ಆರ್. ಸಂಖ್ಯೆ: 53
ದಿನಾಂಕ: 20-12-2022
Date: 20/12/2022

No: First and Part Bill

Division: Yelahanka

Sub-Division: Yelahanka Sub Division, Yelahanka Satellite Town Sub Division

Bill Received No.

Dated

Divisional

Cash Book Voucher No. Dated

Sub Divisional

Work Code: 001-23-000001

Est. Cost- 1000.00 Lakhs

Schedule Docket No.

Head of Account: P-3877

Name of Work: Improvements to roads, drains and other development works at Yelahanka old town, Maruthinagara, sapthagiri layout Gandhinagara KHB Colony, Nehru nagara, Shivanahalli, PDMS APTS Premies and Surrounding areas in Ward No 01 of Yelahanka Division under Amruth Nagarothana Grants(PACKAGE NO 01)

Name of Contractor and Full Address : M/s SATHYA CONSTRUCTIONS, Prop. Rajeshwara Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Reference to Agreement No: BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23 Date: 03-09-2022

Certified that the measurements were taken by me on 16/12/22 and recorded of Pages 466433-466444 of measurement Book No. 4665, and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 17/12/2022 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

- 1) Total value of work done or supplies made as per agreement
- 2) Deduct amount to be held in reserve being
- 3) Deduct Payment: Balance
- 4) Deduct Payment:
 - a) Amount of previous payment as in the Office Cash Book Voucher

No. Dated S. D. No.

towards cash advance recovery of

- b) Payments } cost store or other material supplied.
- Now made } recovery of amount creditable to this/other work
- Amount paid on this bill Cheque / Cash.

- 5) Balance being unpaid value of work done held in reserve.
- 6) Deduct cash advance made on the Office cash Book Voucher No. dated less adjustments.
- 7) Net amount due to or from Contractor
- 8) Advance to Contractor for materials brought to site (as detailed) within.
- 9) Value of Government materials supplied.

unadjustments items

Total amount adjusted -

Received Rs. (in words)

by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Witness

1.

2.

Dated

Signature of Contractor

Paid by me by Cheque No.

Dated

Cash Rs.

Dated

Initials of Officer making payment

Stamp

Gross Amt = Rs	76745900 = 00
CCST = Rs	685231 = 00
SST = Rs	685231 = 00
IV = Rs	767459 = 00
I.C = Rs	767459 = 00
GOVT = Rs	76746 = 00
Royalty = Rs	405200 = 00
T.D. = Rs	3387326 = 00
Net Amt = Rs	7,33,58,574 = 00

(For use in the Office)

Audited & Admitted for Rs. 7,67,45,900 = 00

7,33,58,574 = 00 by Cheque

and Rs. 3387326 = 00 by adjustment

Executive Engineer
Yelahanka Division
BBMP

ABSTRACT														
Item No	Description	Unit	Approved Schedule B			Previous			Present			Total Up to Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead Dismantling Brick - Tile work In cement mortar	Cum	20.32	555.67	11288.99	0.00	555.67	0.00	0.00	555.67	0.00	0.00	0.00	
2	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work	Cum	3973.78	207.12	823049.31	0.00	207.12	0.00	2807.74	207.12	581540.00	2807.74	581540.00	
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates	Cum	665.72	6405.28	4264123.00	0.00	6405.28	0.00	446.57	6405.28	2860402.00	446.57	2860402.00	
4	Providing and laying in position Reinforced cement concrete for all Super structures of building, Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality conforming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	4.04	7952.25	32127.09	0.00	7952.25	0.00	0.00	7952.25	0.00	0.00	0.00	
5	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.	Tonne	72.10	115064.49	8296149.73	0.00	115064.49	0.00	46.77	115064.49	5381344.00	46.77	5381344.00	
6	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge ** Flamed finish granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.	Sqm	32.00	2114.68	67669.76	0.00	2114.68	0.00	0.00	2114.68	0.00	0.00	0.00	

Item No	Description	unit	Approved Schedule B			Previous			Present			Total Up to Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
7	Providing and laying flooring and steps machine cut granite slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar labour, curing complete as per specifications. Qty upto 125%.	Sqm	5.40	2641.40	14263.56	0.00	2641.40	0.00	6.75	2641.40	17830.00	6.75	17830.00	
	Qty Above 125%													
8	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	150.09	6037.80	906213.40	0.00	6037.80	0.00	15.87	6037.80	41774.00	15.87	41774.00	
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, conforming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregate.	Cum	131.35	6788.35	891663.35	0.00	6788.35	0.00	15.05	6788.35	102194.00	15.05	102194.00	
10	Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1.2; One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust; (The rate is inclusive of all materials & labours involved except scaffolding)	Sqm	86.60	214.92	18612.07	0.00	214.92	0.00	37.36	214.92	8030.00	37.36	8030.00	
11	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m ³ and minimum compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572 2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	397.32	1338.52	531820.77	0.00	1338.52	0.00	169.76	1338.52	227221.00	169.76	227221.00	
12	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m ³ and minimum compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572 2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	26.74	1053.44	28168.99	0.00	1053.44	0.00	0.00	1053.44	0.00	0.00	0.00	
13	Providing 12 mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	58.51	314.03	18373.90	0.00	314.03	0.00	0.00	314.03	0.00	0.00	0.00	
14	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement : 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	826.64	366.37	302856.10	0.00	366.37	0.00	233.54	366.37	85564.00	233.54	85564.00	

Item No	Description	Unit	Approved Schedule-B			Previous			Present			Total Up-to Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
15	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge	Sqm	✓ 150.55	✓ 92.43	13915.34	0.00	92.43	0.00	0.00	92.43	0.00	0.00	0.00	
16	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two coats) over and including water thinnable priming coat with cement primer after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	✓ 150.55	✓ 116.93	17603.81	0.00	116.93	0.00	0.00	116.93	0.00	0.00	0.00	
17	Finishing walls with Acrylic Smooth exterior paint of required shade. New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	✓ 90.59	✓ 151.45	13719.86	0.00	151.45	0.00	0.00	151.45	0.00	0.00	0.00	
18	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2 (Titanium Dioxide) at 6PHR with TPE (Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 50mm width x 42mm height with reinforcement of 1mm thickness and Sash with overall size of 31mm X 57mm with GI reinforcement of 1mm for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 21.5mm x 9.5 mm. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system with touch lock	Sqm	✓ 3.24	✓ 6505.50	21077.82	0.00	6505.50	0.00	0.00	6505.50	0.00	0.00	0.00	
19	Providing Mathi Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications	Cum	✓ 0.39	✓ 83901.12	32721.44	0.00	83901.12	0.00	0.00	83901.12	0.00	0.00	0.00	
20	Providing and fixing in position fully panelled Mathi Nandi wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)	Sqm	✓ 10.71	✓ 5073.44	54336.54	0.00	5073.44	0.00	0.00	5073.44	0.00	0.00	0.00	
21	Providing & fixing of louvered ventilator made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2 (Titanium Dioxide) at 6PHR with TPE (Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm Maximum possible size - 1000mm x 1000mm (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)	Sqm	✓ 1.68	✓ 5423.11	9110.82	0.00	5423.11	0.00	0.00	5423.11	0.00	0.00	0.00	

Item No	Description	unit	Approved Schedule-B			Previous			Present			Total Up to Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
22	Providing skirting, dadoing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Sqm	51.30	2310.67	118544.30	0.00	2310.67	0.00	0.00	2310.67	0.00	0.00	0.00	
23	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement - 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/m ² including grouting the joints with white cement and matching pigments etc. complete Size of Tile 600x600 mm	Sqm	37.86	1222.70	46291.42	0.00	1222.70	0.00	0.00	1222.70	0.00	0.00	0.00	
24	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1.00	4728.24	4728.24	0.00	4728.24	0.00	0.00	4728.24	0.00	0.00	0.00	
25	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lid	Each	1.00	5573.44	5573.44	0.00	5573.44	0.00	0.00	5573.44	0.00	0.00	0.00	
26	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required using White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	2.00	4007.75	8015.50	0.00	4007.75	0.00	0.00	4007.75	0.00	0.00	0.00	
27	Providing and fixing brass stop cock of approved quality 20 mm nominal bore	Nos	2.00	384.18	768.36	0.00	384.18	0.00	0.00	384.18	0.00	0.00	0.00	
28	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete 25 mm nominal bore	Nos	2.00	427.61	855.22	0.00	427.61	0.00	0.00	427.61	0.00	0.00	0.00	
29	Providing and fixing gun metal non-return valve of approved quality (screwed end) 25 mm nominal bore Vertical	Nos	2.00	615.81	1231.62	0.00	615.81	0.00	0.00	615.81	0.00	0.00	0.00	
30	Supplying PVC ringite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading/unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc for PVC pipes 25mm dia, 10 kg/sqcm & class 5	Mtr	80.00	52.34	4187.20	0.00	52.34	0.00	0.00	52.34	0.00	0.00	0.00	

Item No	Description	unit	Approved Schedule-B			Previous			Present			Total Upto Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
31	Supplying PVC ringite pipes conforming to IS 4985 2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc for PVC pipes 32mm dia., 10 kg/sqcm & class 5	Mtr	50.00	71.27	3563.50	0.00	71.27	0.00	0.00	71.27	0.00	0.00	0.00	
32	Supplying UNPLASTICISED PVC pipes conforming to IS 16098 2013 with latest amendments ended with integral sockets with ISI mark and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type, with all labour, lead & lifts, including encasing the pipes around to a depth of not less than 15 cms with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing) etc. for Pipes of SN4, 110mm dia.	Mtr	25.00	301.78	7544.50	0.00	301.78	0.00	0.00	301.78	0.00	0.00	0.00	
33	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge	Kg	4730.55	151.45	716442.40	0.00	151.45	0.00	0.00	151.45	0.00	0.00	0.00	
34	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge	Sqm	291.50	868.59	253197.46	0.00	868.59	0.00	0.00	868.59	0.00	0.00	0.00	
35	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72*72*4.8mm Sq. GI Pipe frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile 20mm hot dip galvanised sq rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq rods and heads at top, middle and bottom. Intermediate supports of 75*12mm and 50*6mm arch bent to hot dip galvanised flats the work is inclusive of thorough GI flat GI sq rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq pipe, GI sq rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in the three places for each flop. Heavy duty locking arrangements at low places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work.	Sqm	11.97	21613.46	258799.57	0.00	21613.46	0.00	0.00	21613.46	0.00	0.00	0.00	

Item No	Description	Unit	Approved Schedule-B			Previous			Present			Total Up-to Date		Rem
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
36	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge	Cum	165.83	1418.69	235261.36	0.00	1418.69	0.00	0.00	1418.69	0.00	0.00	0.00	
37	Removing and resetting of kerb stones Qty upto 125%	Mtr	840.00	119.46	100346.40	0.00	119.46	0.00	1050.00	119.46	125433.00	1050.00	125433.00	
	Qty Above 125%								44.20	119.45	5280.00	44.20	5280.00	
38	Removing and Resetting of Footpath Slab	Sqm	3980.71	237.90	947010.91	0.00	237.90	0.00	1632.07	237.90	388270.00	1632.07	388270.00	
39	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite trap basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, conforming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	1034.98	7314.84	7570713.10	0.00	7314.84	0.00	756.85	7314.84	5536203.00	756.85	5536203.00	
40	Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made of M20 with OPC cement, with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work	Sqm	3625.20	2097.57	7604110.76	0.00	2097.57	0.00	1443.30	2097.57	3027423.00	1443.30	3027423.00	
41	Providing B.S. slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)	Sqm	850.84	847.33	720942.26	0.00	847.33	0.00	0.00	847.33	0.00	0.00	0.00	
42	Providing one line dressing to granite stone slab / granite stone masonry as per specifications as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)	Sqm	960.84	244.99	235596.19	0.00	244.99	0.00	185.85	244.99	45532.00	185.85	45532.00	
43	Providing Machine Cutting edges to B.S. slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) inclusive of all Taxes complete as directed by the Engineer in Charge of the work (excluding Area Leading Charges)	Rmt	4230.00	394.81	1670046.70	0.00	394.81	0.00	0.00	394.81	0.00	0.00	0.00	
44	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc., complete and as per drawing and the directions of Engineer in-charge (Data Rate)	Sqm	628.59	5099.16	3205280.98	0.00	5099.16	0.00	178.68	5099.16	911118.00	178.68	911118.00	
45	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)	Nos	7100.00	513.26	3644146.00	0.00	513.26	0.00	5684.00	513.26	2917370.00	5684.00	2917370.00	
46	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	Sqm	1490.72	94.65	141096.65	0.00	94.65	0.00	1341.96	94.65	127017.00	1341.96	127017.00	

Item No	Description	Unit	Approved Schedule-B			Previous			Present			Total Up to Date		Rev
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
47	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as per specifications	Sqm	1549.10	1275.04	1975164.46	0.00	1275.04	0.00	592.48	1275.04	755434.00	592.48	755434.00	
48	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	Cum	3.90	1069.03	4169.22	0.00	1069.03	0.00	0.00	1069.03	0.00	0.00	0.00	
49	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	Cum	2.34	414.25	969.35	0.00	414.25	0.00	0.00	414.25	0.00	0.00	0.00	
50	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge	Cum	2.34	442.09	1034.49	0.00	442.09	0.00	0.00	442.09	0.00	0.00	0.00	
51	Gravel packing in tube well construction in accordance with IS- 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge	Cum	2.34	445.43	1042.31	0.00	445.43	0.00	0.00	445.43	0.00	0.00	0.00	
52	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 16 mm complete, all as per direction of Engineer-in-charge	Each	48.00	1324.04	63553.92	0.00	1324.04	0.00	0.00	1324.04	0.00	0.00	0.00	
53	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead	Sqm	5041.79	4.45	22435.97	0.00	4.45	0.00	2129.07	4.45	9519.00	2129.07	9519.00	
54	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work in all kinds of soils upto 300 mm depth	Cum	3088.07	72.38	223514.51	0.00	72.38	0.00	3302.80	72.38	239057.00	3302.80	239057.00	
55	Construction of Granular-Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 For Grading - IV Material	Cum	1867.31	2654.76	4957266.53	0.00	2654.76	0.00	1696.04	2654.76	4502589.00	1696.04	4502589.00	

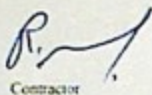
Item No	Description	Unit	Approved Schedule B			Previous			Present			Total Upto Date		Rate
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
56	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates (V-LI No-2 II, P No-15 of KPWD SR 2021-22)	Cum	1477.18	5541.14	8185261.19	0.00	5541.14	0.00	1057.21	5541.14	5858123.00	1057.21	5858123.00	
57	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501 2.2 M30 (Grade), coarse and fine aggregates conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete, as per the directions of the Engineer-in-charge of the work. Qty upto 125%	Cum	984.79	7613.51	7497670.45	0.00	7613.51	0.00	1057.21	7613.51	8049043.00	1057.21	8049043.00	
58	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Qty upto 125%	Cum	970.47	2665.90	2587169.31	0.00	2665.90	0.00	1213.09	2665.90	3233970.00	1213.09	3233970.00	
	Qty Above 125%								338.20	2665.79	901560.00	338.20	901560.00	
59	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. Qty upto 125%	Sqm	3881.87	49.00	190211.63	0.00	49.00	0.00	4852.34	49.00	237765.00	4852.34	237765.00	
	Qty Above 125%								7104.49	46.77	332265.00	7104.49	332265.00	
60	Providing and applying tack coat with RSI Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom	Sqm	26463.56	13.36	353553.16	0.00	13.36	0.00	20018.62	13.36	267449.00	20018.62	267449.00	
61	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects Dense Graded Bituminous Macadam Grading - II for traffic <20 MSA Qty upto 125%	Cum	439.25	11012.13	4837125.27	0.00	11012.13	0.00	549.06	11012.13	6046348.00	549.06	6046348.00	
	Qty Above 125%								48.78	10176.55	496401.00	48.78	496401.00	

Item No	Description	unit	Approved Schedule B			Previous			Present			Total Upto Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
62	Providing and laying Bituminous Concrete with 40:60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects Bituminous Concrete Grading II for traffic <20 MSA Qty upto 125%	Cum	720.57	12840.49	9252451.33	0.00	12840.49	0.00	800.74	12840.49	10281954.00	800.74	10281954.00	
63	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 2015 The finished surface to be level, uniform and free from streaks and holes Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface	Sqm	841.71	532.28	448025.40	0.00	532.28	0.00	770.68	532.28	410218.00	770.68	410218.00	
64	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means properly designed foundation 1 of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete as per direction of engineer in charge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an Independent test laboratory conforming to clause 6.7 of IRC 67 2012 including outdoor weather exposure report for the retro reflective	Nos	87.00	38468.54	3346762.98	0.00	38468.54	0.00	0.00	38468.54	0.00	0.00	0.00	
65	Supplying and Fixing of Molded Shank Raised Pavement Markers / Car's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type II and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06.1997 The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 cm2 on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30 +/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer	Nos	80.00	556.78	44542.40	0.00	556.78	0.00	0.00	556.78	0.00	0.00	0.00	

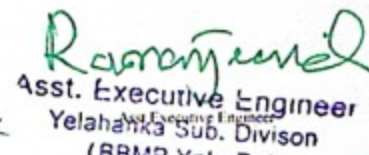
Item No	Description	Unit	Approved Schedule-B			Previous			Present			Total Upto Date		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	
66	Lead for Disposal of Debris	Cum	7449.66	95.76	713379.44	0.00	95.76	0.00	6110.54	95.76	585145.00	6110.54	585145.00	
		Sub Total			88578262.60	-	-	-			65038934.00		65038934.00	
		GST (18%)			-	-	-	-			11707009.00		11707009.00	
		TOTAL AMOUNT			-	-	-	-			76745943.00		76745943.00	

Certificate

1. The Work executed by the contractor is found satisfactory
2. The contractor has removed the debris from the work spot
3. There are no departmental issues for this work


Contractor


Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore


Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
ಬಿಬಿಎಂಪಿ ಯೆಲಾಹಂಕಾ ಸಬ್ ಡಿವಿಷನ್
ಯೆಲಾಹಂಕಾ ಸಬ್ ಡಿವಿಷನ್
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106